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Microcomputer Applications in Vocational Education: Home Economics. Courseware Evaluation for Vocational

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**IDENTIFIERS** 

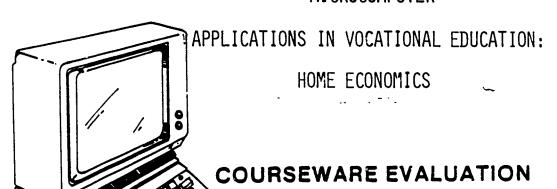
\*Courseware Evaluation

### **ABSTRACT**

This courseware evaluation rates the "Microcomputer Applications in Vocational Education: Home Eronomics" program developed by the Illinois State Board of Education. (This series of programs -- not contained in this document -- includes interior decorating estimating, pounds away program, decision analysis, fiber care, clothing figure analysis, stain removal, consumer math, housing options, home loan analysis, personal budget, utilities, nutrition analysis, home owner's capital gain, measurement conversion, and recipe analysis.) Part A describes the program in terms of hardware requirements (Apple II, TRS 80 III, Pet Basic 3 Commodore), indicates its suitability for grades 11 through adult, and estimates time for use (15-20 minutes). Availability information includes cost (\$11.00--Apple and TRS, \$6.25--Pet) and contact address. Part B contains the evaluation criteria in eight categories; reviewer ratings appear as yes, somewhat, no, and not applicable, with explanatory comments. Part C summarizes the evaluation in terms of strengths (performs calculations related to home economics subjects and provides helpful information for homemakers) and weaknesses (no printed documentation and difficulty in reading the screen). A summary section shows that this courseware received overall ratings of "somewhat" in the categories of subject matter, technical presentation, student interaction, and documentation. (The program interaction, student evaluation, and work behaviors criteria were not applicable.) This courseware is recommended with reservations, due to difficulty in obtaining desired results. (SK)



# MI CROCOMPUTER



FOR

**VOCATIONAL AND TECHNICAL EDUCATION** 

The evaluation of this courseware program was conducted by a team participating in the Courseware Evaluation Network. The Network, established in 1985, is coordinated by the National Center for Research in Vocational Education under the sponsorship of the U.S. Department of Education, Office of Vocational and Adult Education. The purpose of the Network is to identify and evaluate microcomputer courseware, and to disseminate courseware reviews for vocational and technical education.

Each Network team includes three members, at least one of which is, or recently has been, a vocational or technical teacher in the subject matter area of the courseware being evaluated. The evaluation represents a synthesis of the opinions of the team members. It is suggested that the evaluation be used as a first screening device for courseware and that the teacher also evaluate the courseware program on the basis of specific student needs.

The <u>Courseware Evaluation: Form and Guide</u> used for all of the Network evaluations was developed by the National Center and is available through its cost-recovery system.

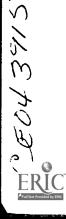
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### **COURSEWARE EVALUATION FORM**

NOTE. If you are using this form for the first time, read the instructions in the accompanying Microcomputer Courseware Evaluation Guide. Evaluator Barbara Reed

Position State Home Economics Supervisor,
Secondary Home Economics Supervisor,
Date August 22, 1985 Retired Lome

Part A: Courseware Description

Economics Supervisor

In the following sections, record descriptive information about the courseware that you are evaluating.

ENTIFICATION Microcomputer Appl Program Title Education: Home E	conomics Conomics	Date	
Series Title			
Vocational Area(s) Home Economics			
Subject Area(s) Consumer and	Homemaking		
Topic(s) <u>Nutrition</u> , <u>Budgeti</u> Decision Making.  Developing Agency	ng, Fiber Care, Math, I Illinois Stare Board		, Housi
Street or P.O. Box100 N. F	<u>irst</u>		
City Springfield State I	L Zip 62777 Phone(	)	
Author(s)			
Programmer(s)			
ARDWARE REQUIREMENTS			
Microcomputer Apple II Plus.	IIe, Ic		
	(brand/model)		
K Memory Required 48 K (number)	<del></del>		
(number)  Medium of Transfer (include number of	f each):		
Tape cassette	X 514" Flexible disk	Other	
ROM cannidge	8" Flexible disk	(specify)	
		1	
Programming Language	DOS Specifications	š	
Other Specifications			
Peripherals Needed (check all that app			
Color monitor	Modem	Clock	
X_ One disk drive	Mouse	Video disk Touch screen	
Two disk drives	Printer	Touch screen Ten-key number	
Plotter	Graphics tablet	pad	
Game paddle(s)	Light pen Voice/sound	Other	
Joystick(s)	voice/sound	(specify)	
*NOTE. Provide the above information		which this program	
can be used	Pet Basic 3 Commodore	/0/0 Dick Drive	
TRS 80 111,	ret basic 3 Commodore	4040 DISK DIIVE	



III. PROGRAM FEATURES (C  — Network version provided  — Multiple copies required  — Program can be modified	theck all that apply	r): Program protecte Data disk needed Field-test data ava	
IV. INSTRUCTIONAL SETTII Program mode (check a X_ApplicationDrill and practice		Educational gaming , Simulation	Tutorial Other (specify)
Student Tärget Populat  X_ Regular  Disadvantaged	ion (check all that	apply): Handicapped Limited English	_ Bilingual X Gifted
Grade Level (check all )  — K-6 — 7-8	that apply): 9-10 11-12	X_ 13-14 X_ Adult	Higher Education
Instructional Grouping  X. Individual  Y. Small group (up to  Large group (4 or r	. 4)	ply):competitive X_ cooperative	
Prerequisite Student St	kills (specify)		
Accompanying Materia Documentation _	us (specify types):	Within Program	
Student support n	naterials		
Correlated materials _			<del></del>
Estimated Time for Us	Each sect	ion 15-20 minutes	
V. AVAILABILITYFree(copies)		X Sale s 11.0 6.2 Rent S	O Apple and TRS Fet Commodore
Loan (time) Duplication (requestors	supplies disk)		(tim <del>ē</del> )
Copyright Restrictions	s (explain)		
Preview Policy (explain	n)		
Update Policy (explain	n)		
Contact Curriculum	Publications	Clearinghouse, Wester	n Illinois University
Street or P.O. Bo	x46 Horrab	in Hall	
Macomb	State	IL Zip 61455 Pr	none ( )



# Part B: Courseware Evaluation Criteria

indicate the applicability of each section to the courseware being evaluated by checking either "\_\_\_\_ !" (applicable) or "\_\_\_\_ N/A" (not applicable). If a section is not applicable, proceed to the next section. If a section is applicable, check the column that indicates how well the courseware meets each criterion. Include any comments.

		YES	SOME- WHAT	NO	N/A	COMMENTS
I SL	BJECT MATTER X AN/A					
1	Subject matter has educational value.	X				
2.	Student objectives are stated.			х		
3.	Subject matter is accurate.	x				
4.	Subject matter is logically presented.	х			_	
5.	Subject matter is free of race, ethnic, sex, and other stereotypes.	х				
6.	Subject matter is on the level of the students.	х	_			Advanced
7.	Information and skills presented are comparable to those used in the home, business, or industry.	х				
8.	Subject matter motivates students to learn.		X			
9.	Subject matter is reviewed and summarized.			х	_	
10.	Program utilizes the unique capabilities of the microcomputer to present the subject matter.		Х			Some sections
II. T	ECHNICAL PRESENTATION X A N/A					
1.	Program is free of technical problems.	X				
2.	Presentation rate is adequate to maintain interest.	х			·	
3.	Information on the screen is easy to read.			X		
4.	Program is free of spelling and grammatical errors.	х	: 			
5.	Program instructions are easy to follow.		Х			
6.	Color increases the instructional value of the program.				Х	
7.	Audio increases the instructional value of the program.				X	
8.	Graphics increase the instructional value of the program.				X_	



	YES	SOME- WHAT	NO	N/A	COMMENTS
II. STUDENT INTERACTION X A N/A					
Students can use the program with minimal assistance.		X			Some prerequisite knowledge
<ol><li>Students are actively involved in the program.</li></ol>	Х		_		
3. Students control the pace of the program.	X_		<u> </u>	—	
4. Students can access the program "menu(s)" to change activities.	х				
5. Students are permitted to change answers.	<b> </b>	X	↓	↓	
<ol><li>Methods of responding correspond to the level of the program.</li></ol>	х				
7 Students' errors of entry are processed so that the program continues to run.	Х		_	<u> </u>	
<ol> <li>Students can access available "help" and "hint" options at any time.</li> </ol>		<u> </u>	X		
<ol><li>Students can enter or exit the program as desired.</li></ol>		х	<u> </u>	<u> </u>	When specified
<ol> <li>Students control the sequence of the program.</li> </ol>		Х			Can select the mer
IV. PROGRAM INTERACTION XAN/A	<u> </u>	<del></del>			·
1. Feedback is immediate.	X		—		<b></b>
<ol><li>Cues and prompts are provided to assist students in answering correctly.</li></ol>			X_	_	
Feedback reinforces the correct responses.		х			
4. Feedback is nonthreatening.	X				
<ol><li>Program helps students understand wrong answers.</li></ol>			х		
<ol><li>Program gives the correct answer after a reasonable number of tries.</li></ol>				X	
7. Positive reinforcement is varied.	X				Depending on pros
<ol><li>Program has the ability to branch/loop depending upon students' performance.</li></ol>	х				
9. Feedback is on the level of the student.	X		_1_		
V. STUDENT EVALUATION A X_N/A	_			<del></del>	
1 Evaluation provides a means for measur- ing attainment of objectives.					
2 Program reports which items were missed and which were correct.					



		SOME-			
	YES	WHAT	NO	N/A	COMMENTS
V STUDENT EVALUATION—Continued					
<ol><li>Individual student performance results are available to the teacher.</li></ol>					
4 Class performance results are available to the teacher.					
5 Program provides for printed copies of evaluations.					
<ol><li>Test item formats are suited to the material being tested.</li></ol>					
7 Test items are clearly stated.					
8. Test item bank is provided.		<u> </u>			
VI. DOCUMENTATION X A N/A					
Documentation is easy to understand.		х			On Disk
2. Documentation is accurate.	X				
3. Student-objectives are stated.				X	
4. Underlying concepts are outlined.		_	x		
5. Skills to be developed are specified.		y			
6. Procedures for integrating the program into the curriculum are provided.			X		
7. Follow-up activities are suggested.			x		
8 Documentation explains the intended use of support materials.				X	No Support Materia
<ol><li>Sufficient information is provided to operate the program.</li></ol>	х				
VII. WORK BEHAVIORS A X N/A					
<ol> <li>Program helps students identify their vocational skills.</li> </ol>					
2. Program promotes pride in work.					
3. Program promotes productivity.					
4. Program encourages good work habits.					
5. Problem solving is encouraged.					
<ol><li>Program promotes good human relations skills.</li></ol>					
<ol> <li>Program provides an opportunity for work satisfaction and self-fulfillment.</li> </ol>					
8. Program encourages creativity.					



	YES	SOME- WHAT	NO	N/A	COMMENTS
VIII. APPLICATION PROGRAMS X_A N/A (to be completed for application programs only)					
<ol> <li>Program is adaptable to the needs of the student.</li> </ol>			х		
2. Commands are easily remembered.	х_				
3. Information is easily manipulated.			х		
4. Corrections are easy to make.	<u> </u>		<u>_x_</u>		
5. Program includes all necessary variables.	$oldsymbol{ol}}}}}}}}}}}}}}}}}$	Х			
6. Program performs reliably.	<u> </u>	X	<u> </u>	<u> </u>	
<ol><li>Program efficiently achieves its intended purpose.</li></ol>		. х	<u> </u>		
8. Trial data are supplied for learning to run the program.			х		
<ol><li>Program provides for use of printer when hard copy of information is advantageous.</li></ol>			х		
10. Program moves from operation to operation efficiently.			_	х	
<ol> <li>Program is compatible with other applica- tion programs.</li> </ol>			_	х	
12. Program has a supplementary tutorial program available.			X		



# Part C: Courseware Evaluation Summary

### Part C: Courseware Evaluation Summary

# 1 SUMMARY COMMENTS

Identify strengths of the courseware:

- 1- Performs calculations related to home economics subjects.
- 2- Helpful info for homemakers utilization of computer in home.

# Identify weaknesses of the courseware:

- 1- Difficult to read screen
- 2- No printed documentation
- 3- Technical problem with fiber care portion Describe uses of the courseware in an instructional setting:

For use in class for utilizing the computer, or in the home, cooperative extension, workshops.

# 2. SUMMARY OF SECTION

Rate the quality of the courseware for each applicable section of this form by checking the appropriate column; if not applicable, check N/A.

		YES	SOME- WHAT	NO	N/A
I.	SUBJECT MATTER: Content has educational value.		X		
II.	TECHNICAL PRESENTATION: Program is free of malfunctions.		Х		
111.	STUDENT INTERACTION: Students are actively involved with the program.		Х		
ΙV	PROGRAM INTERACTION: Feedback is effectively employed.				Х.
٧	STUDENT EVALUATION Evaluation adequately measures student progress.		_		Х
VI.	DOCUMENTATION: Documentation is sufficient to run the program.		х		
VII.	WORK BEHAVIORS: Program assists students in developing positive work attitudes and skills.				Х
VIII	APPLICATION PROGRAMS: Program performs the task for which it is intended.		х		

3.	FINAL	RECC	MMENDATIO	N
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	Н	ıg	піу	re	CO	mı	πe	na
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X Recommend with reservations

\_\_ Recommend

\_\_\_ Do not recommend

Difficult to obtain desired results



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Microcomputer Courseware Evaluation Guide: Form and Guide for Vocational and Technical Education

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